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Product datasheet for TA812019M

Alpha Fodrin (SPTAN1) Mouse Monoclonal Antibody [Clone ID: OTI9C10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9C10
Applications:	IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-147 of human SPTAN1 (NP_001123910) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	spectrin alpha, non-erythrocytic 1
Database Link:	NP_001123910 Entrez Gene 20740 MouseEntrez Gene 64159 RatEntrez Gene 6709 Human Q13813

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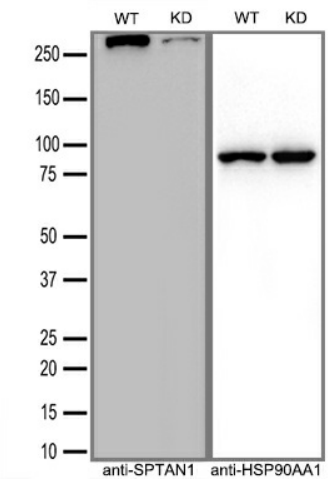
Background: Spectrins are a family of filamentous cytoskeletal proteins that function as essential scaffold proteins that stabilize the plasma membrane and organize intracellular organelles. Spectrins are composed of alpha and beta dimers that associate to form tetramers linked in a head-to-head arrangement. This gene encodes an alpha spectrin that is specifically expressed in nonerythrocytic cells. The encoded protein has been implicated in other cellular functions including DNA repair and cell cycle regulation. Mutations in this gene are the cause of early infantile epileptic encephalopathy-5. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]

Synonyms: DEE5; EIEE5; NEAS; SPTA2

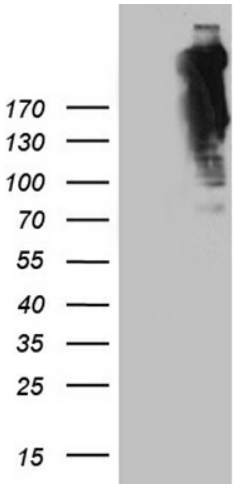
Protein Families: Druggable Genome

Protein Pathways: Tight junction

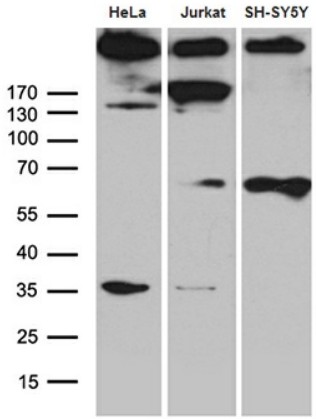
Product images:



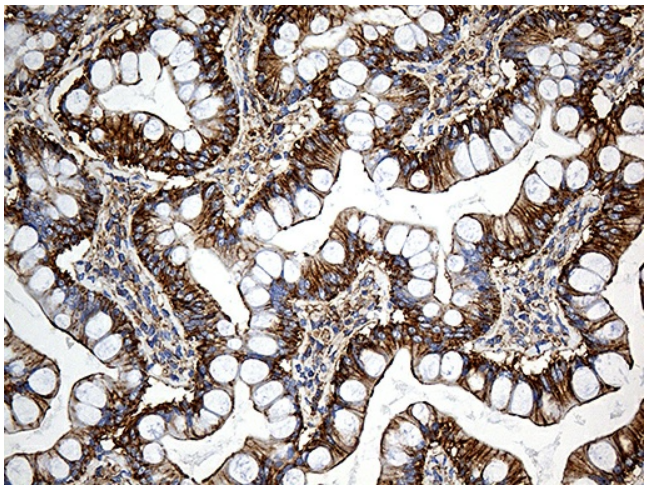
Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells (WT) and SPTAN1-Knockdown HeLa cells (KD) were separated by SDS-PAGE and immunoblotted with anti-SPTAN1 monoclonal antibody [TA812019] (1:2500). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



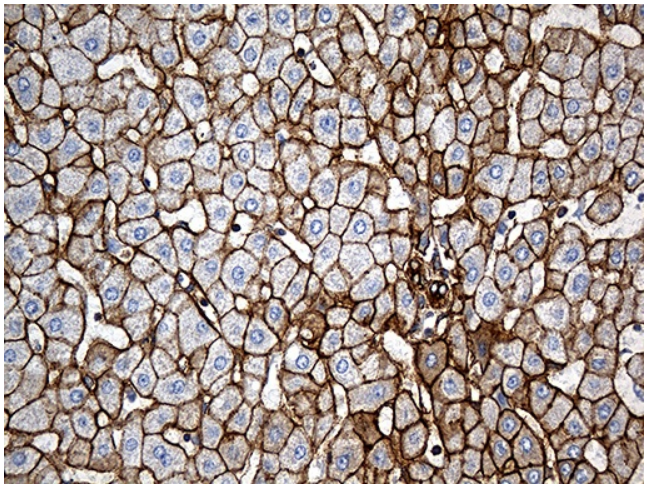
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SPTAN1 (Cat# [RC226485], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPTAN1 (Cat# [TA812019])(1:2000).



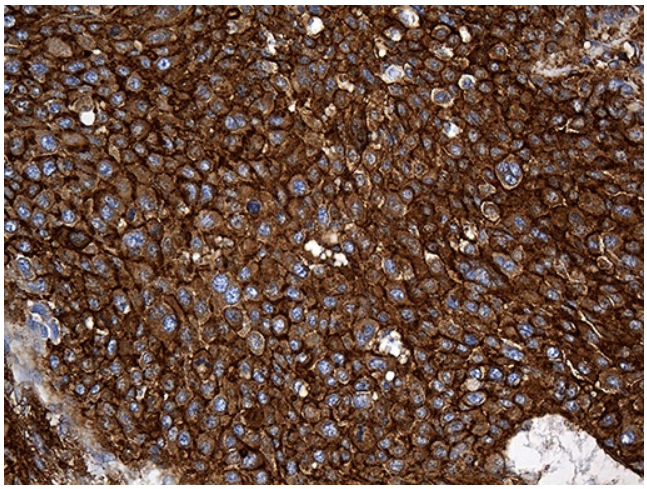
Western blot analysis of extracts (35ug) from 3 cell line by using anti-SPTAN1 monoclonal antibody (1:500).



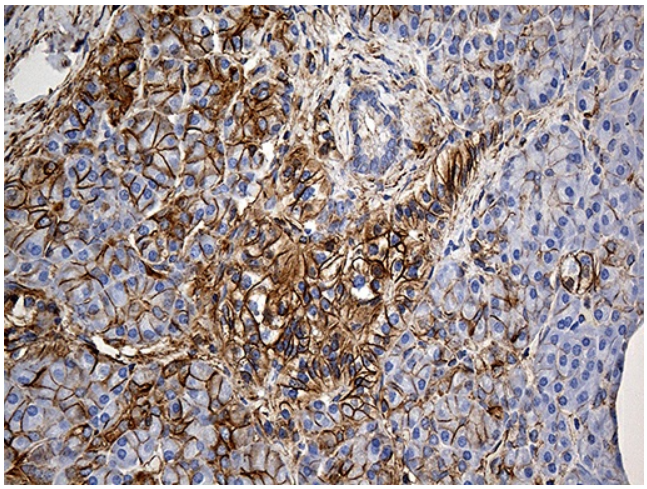
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-SPTAN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



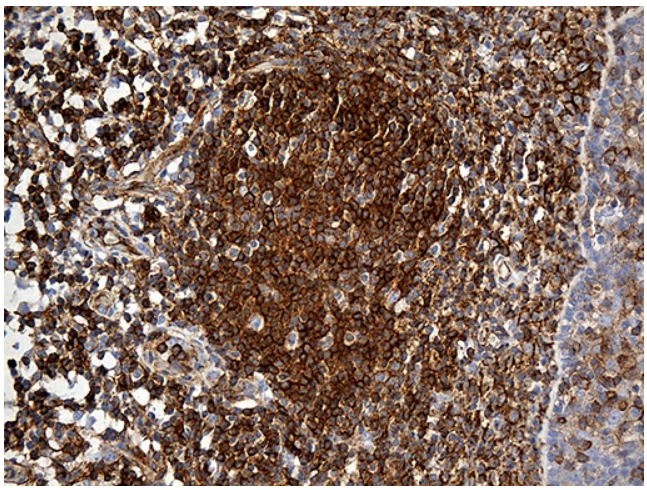
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-SPTAN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



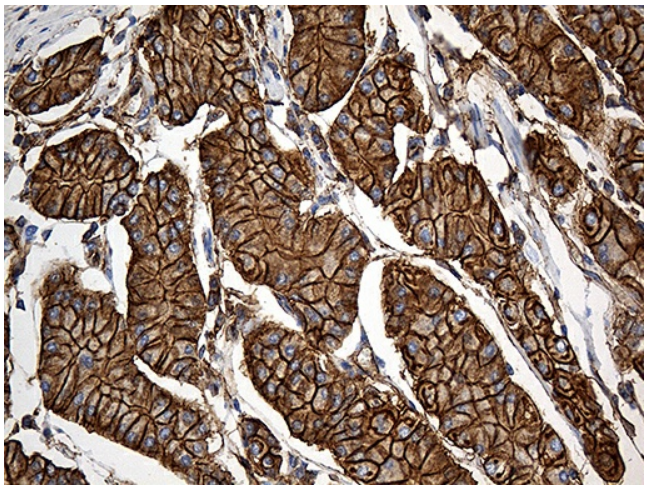
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-SPTAN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



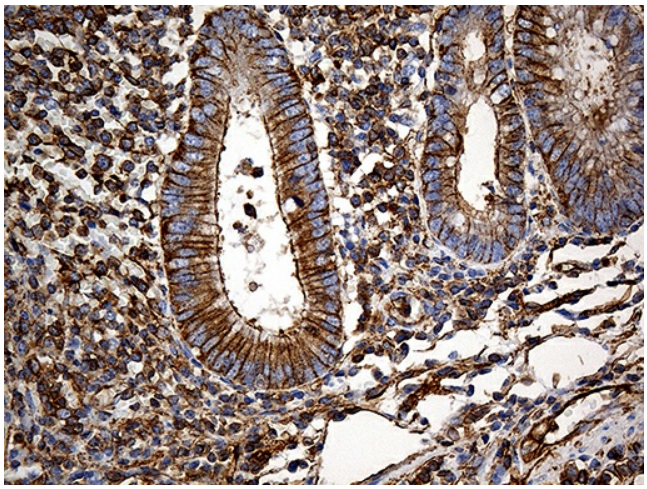
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-SPTAN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-SPTAN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human gastric tissue within the normal limits using anti-SPTAN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human appendix tissue within the normal limits using anti-SPTAN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.